

CC The present sequence is human metalloproteinase ADAMTS-9. The
 CC ADAMTS family of proteins is closely related to the ADAM (A Disintegrin
 CC and Metalloproteinase Domain) family. Members of the ADAMTS family
 CC contain a thrombospondin domain in addition to the disintegrin and
 CC metalloproteinase domains found in the ADAMs. ADAMTS polypeptides are
 CC useful for the manufacture of medicaments for treating conditions
 CC associated with neuroinflammation and/or neurodegeneration, such as
 CC Alzheimer's disease, Parkinson's disease and stroke. They are also
 CC useful for treating conditions associated with cell proliferation, cell
 CC migration, inflammation and/or angiogenesis, such as cancer, arthritis
 CC and autoimmune diseases. They can be used to treat patients afflicted
 CC with an invasive tumour, a brain tumour or brain injury.

XX SQ Sequence 1073 AA;
 Query Match 99.4%; Score 1025; DB 21; Length 1073;
 Best Local Similarity 99.5%; Pred. No. 2.9e-106;
 Matches 189; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LSYPRFVEVLVADNRWVSYHGENLQHYILTLMSIVASIVKDFSIQNLINIVIVNLIVH 60
 Db 289 LSYPRFVEVLVADNRWVSYHGENLQHYILTLMSIVASIVKDFSIQNLINIVIVNLIVH 348
 Qy 61 NEQDGPISFNACTTLKRFQWHSKNSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 120
 Db 349 NEQDGPISFNACTTLKRFQWHSKNSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 408
 Qy 121 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDDNNKKEGVKSPQHVMAPTLNF 180
 Db 409 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDDNNKKEGVKSPQHVMAPTLNF 468
 Qy 181 YTNPWMSKC 190
 Db 469 YTNPWMSKC 478

RESULT 8
 AAB72286
 ID AAB72286 standard; Protein; 1882 AA.
 XX AAB72286;
 AC AAB72286;
 XX
 DT 14-MAY-2001 (first entry)
 DE Human ADAMTS-9 amino acid sequence.
 XX
 KW ADAMTS-N; disintegrin; metalloproteinase; thrombospondin type I motif;
 KW tumour cachexia; inflammation; dermatosparaxis; EDS-VIIC; angiogenesis;
 KW Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; human;
 Y metastasis; embryogenesis; egg implantation; ADAMTS-9.
 OS Homo sapiens.
 XX
 FN WC200111074-A2.
 XX
 XX
 PD 15-FEB-2001.
 XX
 PF 03-AUG-2000; 2000WO-US21223.
 XX
 PR 06-AUG-1999; 99US-0369364.
 XX
 PA (CLEV-) CLEVELAND CLINIC FOUND.
 PA (APTE/) APTE S S.
 PA (HURS/) HURSKAINEN T L.
 PA (HIRO/) HIROHATA S.
 XX
 PI Apte SS, Hurskainen TL, Hirohata S;
 WPI; 2001-159978/16.
 AAF63443.

Human 'A Disintegrin-like And Metalloproteinase domain with
 I motifs' proteins and the nucleic acids encoding

PF them, useful for treating e.g. tumours, inflammation and arthritis -
 XX Claim 1; Fig 7; 181pp; English.

CC This invention relates to murine and human ADAMTS-N (A disintegrin-like
 CC and metalloproteinase domain with thrombospondin type I motifs) proteins,
 CC designated ADAMTS-5, 6, 7, 8, 9, 10 and 11. Also included in the
 CC invention are cDNA sequences encoding the proteins and antibodies
 CC specific for the proteins. The nucleic acid sequences and proteins may be
 CC used in the prevention, diagnosis and treatment of diseases associated
 CC with inappropriate ADAMTS-N expression. Disorders that may be treated
 CC using the nucleic acids, proteins and antibodies include, for example
 CC tumour cachexia, inflammation, dermatosparaxis in cattle or Ehlers-Danlos
 CC syndrome type VIIC (SDS-VIIC) in humans, erosion of articular cartilage
 CC in arthritic (both inflammatory and non-inflammatory) disease,
 CC angiogenesis, tumour growth and metastases, and they may also be used for
 CC controlling embryogenesis and implantation of fertilised eggs. The
 CC present sequence represents human ADAMTS-9.

XX SQ Sequence 1882 AA;
 Query Match 98.5%; Score 1015.5; DB 22; Length 1882;
 Best Local Similarity 99.5%; Pred. No. 7.6e-105;
 Matches 189; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

Qy 1 LSYPRFVEVLVADNRWVSYHGENLQHYILTLMSIVASIVKDFSIQNLINIVIVNLIVH 60
 Db 237 LSYPRFVEVLVADNRWVSYHGENLQHYILTLMSIVASIVKDFSIQNLINIVIVNLIVH 296
 Qy 61 NEQDGPISFNACTTLKRFQWHSKNSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 120
 Db 297 NEQDGPISFNACTTLKRFQWHSKNSPGGIHHDHTAVLLTRQDICRAHDKCDTLGLAEL 355
 Qy 121 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDDNNKKEGVKSPQHVMAPTLNF 180
 Db 356 GTICDPYRSCSISDSGLSTAFTHAELGHVFNPHDDNNKKEGVKSPQHVMAPTLNF 415
 Qy 181 YTNPWMSKC 190
 Db 416 YTNPWMSKC 425

RESULT 9
 AAB72301
 ID AAB72301 standard; Protein; 1934 AA.
 XX AAB72301;
 AC AAB72301;
 XX
 DT 14-MAY-2001 (first entry)
 DE Human ADAMTS-9 alternative amino acid sequence.
 XX
 KW ADAMTS-N; disintegrin; metalloproteinase; thrombospondin type I motif;
 KW tumour cachexia; inflammation; dermatosparaxis; EDS-VIIC; angiogenesis;
 KW Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; human;
 KW metastasis; embryogenesis; egg implantation; ADAMTS-9.
 OS Homo sapiens.
 XX
 FN WC200111074-A2.
 XX
 XX
 PD 15-FEB-2001.
 XX
 PF 03-AUG-2000; 2000WO-US21223.
 XX
 PR 06-AUG-1999; 99US-0369364.
 XX
 PA (CLEV-) CLEVELAND CLINIC FOUND.
 PA (APTE/) APTE S S.
 PA (HURS/) HURSKAINEN T L.
 PA (HIRO/) HIROHATA S.
 XX
 PI Apte SS, Hurskainen TL, Hirohata S;
 WPI; 2001-159978/16.
 AAF63443.

Human 'A Disintegrin-like And Metalloproteinase domain with
 I motifs' proteins and the nucleic acids encoding

(CLEV-) CLEVELAND CLINIC FOUND.

(APTE/) APTE S S.

(HURS/) HURSKAINEN T L.

(HIRO/) HIROHATA S.

ApTe SS, Hurskainen TL, Hirohata S;

WPI; 2001-159978/16.

N-PSDB; RAFP63444.

Disclosure; Fig 17; 181pp; English.

This invention relates to murine and human ADAMTS-N (A disintegrin-like and metalloprotease domain with thrombospondin type I motifs) proteins, and designated ADAMTS-5, 6, 7, 8, 9, 10 and R1. Also included in the invention are cDNA sequences encoding the proteins, and antibodies specific for the proteins. The nucleic acid sequences and proteins may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate ADAMTS-N expression. Disorders that may be treated using the nucleic acids, proteins and antibodies include, for example, tumour cachexia, inflammation, dermatoparaxis in cattle or Ehlers-Danlos syndrome type VIIC (EDS-VIIC) in humans, erosion of articular cartilage in arthritic (both inflammatory and non-inflammatory) disease, angiogenesis, tumour growth and metastases, and they may also be used for controlling embryogenesis and implantation of fertilised eggs. The present sequence represents human ADAMTS-9.

Query Match 98.5%; Score 1015.5; DB 22; Length 1934;
Best Local Similarity 99.5%; Pred. No. 7.9e-105;
Matches 189; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 LSYPRFVEVLVADNRVMSYHGENLQHYILTLMSIVASIVKDPISGIMLNIVIVNLIVIH 60
DB 289 LSYPRFVEVLVADNRVMSYHGENLQHYILTLMSIVASIVKDPISGIMLNIVIVNLIVIH 348
QY 61 NEQDGPISLFAQAQTLKQFCQWQHSKSPGGIHHDTAVLLTRQDICRAHDKCDTLGLAEL 120
DB 349 NEQDGPISLFAQAQTLKQFCQWQHSKSPGGIHHDTAVLLTRQDICRAHDKCDTLGLAEL 407
QY 121 GTICDPYRSCSISDSEGLSTAFPTIAHELGHVFNPHDDNNKCKEKGKSPQHVMAPTLNF 180
DB 408 GTICDPYRSCSISDSEGLSTAFPTIAHELGHVFNPHDDNNKCKEKGKSPQHVMAPTLNF 467
QY 181 YTNPWMSKC 190
DB 468 YTNPWMSKC 477

ULT 10

AAB72287 standard; Protein; 874 AA.

AC AAB72287;

DT 14-MAY-2001 (first entry)

DE Murine ADAMTS-9 amino acid sequence.

ADAMTS-N; disintegrin; metalloprotease; thrombospondin type I motif; tumour cachexia; inflammation; dermatoparaxis; EDS-VIIC; angiogenesis; Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; mouse; metastasis; embryogenesis; egg implantation; ADAMTS-9.

OS Mus musculus.

PN WO200111074-A2.

XX 15-FEB-2001.

XX 03-AUG-2000; 2000WO-US21223.

XX 06-AUG-1999; 99US-0369364.

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Query Match 91.9%; Score 947; DB 22; Length 874;
Best Local Similarity 91.6%; Pred. No. 1.4e-97;
Matches 174; Conservative 8; Mismatches 8; Indels 0; Gaps 0;

QY 1 LSYPRFVEVLVADNRVMSYHGENLQHYILTLMSIVASIVKDPISGIMLNIVIVNLIVIH 60

DB 128 LSYPRFVEVLVADNRVMSYHGENLQHYILTLMSIVASIVKDPISGIMLNIVIVNLIVIH 187

QY 61 NEQDGPISLFAQAQTLKQFCQWQHSKSPGGIHHDTAVLLTRQDICRAHDKCDTLGLAEL 120

DB 188 NEQDGPISLFAQAQTLKQFCQWQHSKSPGGIHHDTAVLLTRQDICRAHDKCDTLGLAEL 247

QY 121 GTICDPYRSCSISDSEGLSTAFPTIAHELGHVFNPHDDNNKCKEKGKSPQHVMAPTLNF 180

DB 248 GTICDPYRSCSISDSEGLSTAFPTIAHELGHVFNPHDDNNKCKEKGKSPQHVMAPTLNF 307

QY 181 YTNPWMSKC 190

DB 308 YTNPWMSKC 317

RESULT 11

AAU77133

XX AAU77133 standard; Protein; 1907 AA.

AC AAU77133;

XX 05-JUN-2002 (first entry).

DT Human protease #12.

DE Human; protease; enzyme.

XX Homo sapiens.

OS WO200216564-A2.

XX 28-FEB-2002.

XX 22-AUG-2001; 2001WO-US26148.

19-267 for domain

XX CC The invention relates to an isolated human protease polypeptide (PRTS).
 CC CC PRTS protein and DNA are useful for diagnosing, treating and preventing
 CC CC gastrointestinal disorders (gastritis, cirrhosis, Crohn's disease),
 CC CC autoimmune/inflammatory disorders (AIDS, allergy, rheumatoid arthritis,
 CC CC anaemia, asthma), cardiovascular disorder (atherosclerosis, hypertension,
 CC CC myocardial infarction), cell proliferative disorders (hepatitis, cancer,
 CC CC psoriasis), developmental disorders (Cushing's syndrome, hypothyroidism),
 CC CC epithelial disorder (vitiligo, keloid, eczema), neurological disorders
 CC CC (epilepsy, Alzheimer's disease, Pick's disease, Huntington's disease,
 CC CC Parkinson's disease), and reproductive disorders (infertility). PRTS
 CC CC protein is useful in a number of drug screening techniques and to
 CC CC analyse the procenome of a tissue or cell type. PRTS DNA is useful for
 CC CC creating knockin humanised animals or transgenic animals to model human
 CC CC diseases, in somatic or germline gene therapy and in microarrays
 CC CC utilising fluids or tissues from patients to detect altered PKIN
 CC CC expression. The present sequence is human PRTS-10 protein. Human PRTS-10
 CC CC gene is located on chromosome 3.
 XX CC Sequence 1916 AA;

Query Match 99.6%; Score 1405; DB 23; Length 1916;
 Best Local Similarity 100.0%; Pred. No. 4.2e-139;
 Matches 268; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 MGSPDAAAARKDLHPQVKLLETLSYEIVSPIRVNALGEPPTNVHFKRTRRSINGA 61
 Db 1 MGSPDAAAARKDLHPQVKLLETLSYEIVSPIRVNALGEPPTNVHFKRTRRSINGA 60

Qy 62 TDPWPAFASSSSTSSQAHYRLSFAFGQQLFNLTANAGFIAPLFTVTLGTPGVNQT 121
 Db 61 TDPWPAFASSSSTSSQAHYRLSFAFGQQLFNLTANAGFIAPLFTVTLGTPGVNQT 120

Qy 122 YSEEEAEKHCYKGYVNTNSEHTAVISLCSGMLGTFPRSHDGDYFIEPLQSMDEQDEE 181
 Db 121 YSEEEAEKHCYKGYVNTNSEHTAVISLCSGMLGTFPRSHDGDYFIEPLQSMDEQDEE 180

Qy 182 QNKPHIYRSAPOREPSTGRHACDTSEHKNRHSKDKKTRARKWGERINLAGDVAALNS 241
 Db 181 QNKPHIYRSAPOREPSTGRHACDTSEHKNRHSKDKKTRARKWGERINLAGDVAALNS 240

Qy 242 GLATEAFSAVGNKTDNTRKTRHRTKR 269
 Db 241 GLATEAFSAVGNKTDNTRKTRHRTKR 268

RESULT 8
 AAB72301
 ID AAB72301 standard; Protein; 1934 AA.
 XX AC AAB72301;
 XX DT 14-MAY-2001 (first entry)
 XX DE Human ADAMTS-9 alternative amino acid sequence.

ADAMTS-N; disintegrin; metalloprotease; thrombospondin type I motif;
 tumour cachexia; inflammation; dermatosparaxis; EDS-VIIC; angiogenesis;
 Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; human;
 metastasis; embryogenesis; egg implantation; ADAMTS-9.
 OS Homo sapiens.
 XX WO200111074-A2.
 XX PN 15-FEB-2001.
 XX PD 03-AUG-2000; 2000WO-US21223.
 XX 03-AUG-1999; 99US-0369364.
 XX BELAND CLINIC FOUND.

PA (HURS/) HURSKAINEN T L.
 XX (HIRO/) HIROHATA S.
 XX PI Apte SS, Hurskainen TL, Hirohata S;
 XX DR WPI; 2001-159978/16.
 XX DR N-PSDB; AAF63449.

Murine and human 'A Disintegrin-like And Metalloprotease domain with
 Thrombospondin type I motifs' proteins and the nucleic acids encoding
 them, useful for treating e.g. tumours, inflammation and arthritis -
 Disclosure; Fig 17; 181pp; English.

This invention relates to murine and human ADAMTS-N (A disintegrin-like
 and metalloprotease domain with thrombospondin type I motifs) proteins,
 designated ADAMTS-5, 6, 7, 8, 9, 10 and R1. Also included in the
 invention are cDNA sequences-encoding the proteins, and antibodies
 specific for the proteins. The nucleic acid sequences and proteins may be
 used in the prevention, diagnosis and treatment of diseases associated
 with inappropriate ADAMTS-N expression. Disorders that may be treated
 using the nucleic acids, proteins and antibodies include, for example
 tumour cachexia, inflammation, dermatosparaxis in cattle or Ehlers-Danlos
 syndrome type VIIC (EDS-VIIC) in humans, erosion of articular cartilage
 in arthritic (both inflammatory and non-inflammatory) disease,
 angiogenesis, tumour growth and metastases, and they may also be used for
 controlling embryogenesis and implantation of fertilised eggs. The
 present sequence represents human ADAMTS-9.

Qy 1 EMGSPDAAAARKDLHPQVKLLETLSYEIVSPIRVNALGEPPTNVHFKRTRRSINS 60
 Db 19 EMGSPDAAAARKDLHPQVKLLETLSYEIVSPIRVNALGEPPTNVHFKRTRRSINS 78

Qy 61 ATDWPAPASSSSTSSQAHYRLSFAFGQQLFNLTANAGFIAPLFTVTLGTPGVNQT 120
 Db 79 ATDWPAPASSSSTSSQAHYRLSFAFGQQLFNLTANAGFIAPLFTVTLGTPGVNQT 138

Qy 121 FYSEEEAEKHCYKGYVNTNSEHTAVISLCSGMLGTFPRSHDGDYFIEPLQSMDEQDEE 180
 Db 139 FYSEEEAEKHCYKGYVNTNSEHTAVISLCSGMLGTFPRSHDGDYFIEPLQSMDEQDEE 198

Qy 181 EONKPHIYRSAPOREPSTGRHACDTSEHKNRHSKDKKTRARKWGERINLAGDVAALN 240
 Db 199 EONKPHIYRSAPOREPSTGRHACDTSEHKNRHSKDKKTRARKWGERINLAGDVAALN 258

Qy 241 SGLATEAFSAVGNKTDNTRKTRHRTKR 269
 Db 259 SGLATEAFSAVGNKTDNTRKTRHRTKR 287

RESULT 9
 ABG30702
 ID ABG30702 standard; Protein; 1602 AA.
 XX AC ABG30702;
 XX DT 07-OCT-2002 (first entry)
 XX DE Human aggrecanase polypeptide #1.
 XX KW Human; aggrecanase; enzyme; computer aided drug design; osteoarthritis;
 KW KW aggrecan; genetic disorder; proteolytic activity; articular cartilage;
 XX KW osteopathic; antiarthritic.
 OS Homo sapiens.
 XX Key Location/Qualifiers
 FH

KW Ehlers-Danlos syndrome type VIIC; articular cartilage erosion; human;
 KW metastasis; embryogenesis; egg implantation; ADAMTS-9.
 XX Homo sapiens.
 XX WO200111074-A2.
 XX 15-FEB-2001.
 XX 03-AUG-2000; 2000WO-US21223.
 XX 06-AUG-1999; 99US-0369364.
 XX (CLEV-) CLEVELAND CLINIC FOUND.
 XX (APTE/) APTE S S.
 XX (HURS/) HURSKAINEN T L.
 XX (HIRO/) HIROHATA S.
 XX Apte SS, Hurskainen TL, Hirohata S;
 WPI; 2001-159978/16.
 N-PSDB; AAF63449.

XX Murine and human 'A Disintegrin-like And Metalloprotease domain with
 PT Thrombospondin type I motifs' proteins and the nucleic acids encoding
 PT them, useful for treating e.g. tumours, inflammation and arthritis -
 XX Disclosure; Fig 17; 18ipp; English.

XX This invention relates to murine and human ADAMTS-N (A disintegrin-like
 CC and metalloprotease domain with thrombospondin type I motifs) proteins,
 CC designated ADAMTS-5, 6, 7, 8, 9, 10 and E1. Also included in the
 CC invention are cDNA sequences encoding the proteins, and antibodies
 CC specific for the proteins. The nucleic acid sequences and proteins may be
 CC used in the prevention, diagnosis and treatment of diseases associated
 CC with inappropriate ADAMTS-N expression. Disorders that may be treated
 CC using the nucleic acids, proteins and antibodies include, for example
 CC tumour cachexia, inflammation, dermatoparaxia in cattle or Ehlers-Danlos
 CC syndrome type VIIC (EDS-VIIC) in humans, erosion of articular cartilage
 CC in arthritic (both inflammatory and non-inflammatory) disease, and
 CC angiogenesis, tumour growth and metastases, and they may also be used for
 CC controlling embryogenesis and implantation of fertilised eggs. The
 CC present sequence represents human ADAMTS-9.

XX Sequence 1934 AA;

Query Match 98.6%; Score 8989.5; DB 22; Length 1934;
 Best Local Similarity 99.3%; Pred No 0;
 Matches 1612; Conservative 2; Mismatches 8; Indels 1; Gaps 1;

QY	1	MQFVSWATLLLLVRLDLEMGSPDAAAARVDRDLHPRQVKLLETSEYEIVSPIRVNALG	60
Db	1	MQFVSWATLLLLVRLDLEMGSPDAAAARVDRDLHPRQVKLLETSEYEIVSPIRVNALG	60
QY	61	EPPPTNVHFRTRRSINGATDPWPAFASSTSSSTSSOAHYRLSFAFGQOFLFNLTANAGFI	120
Db	61	EPPPTNVHFRTRRSINGATDPWPAFASSTSSSTSSOAHYRLSFAFGQOFLFNLTANAGFI	120
QY	121	APLFTVLLGTPGVNQTIFYBEEAEKLCFKYGVNTNSEHTAVISLCSGMLGTFPRSHD	180
Db	121	APLFTVLLGTPGVNQTIFYBEEAEKLCFKYGVNTNSEHTAVISLCSGMLGTFPRSHD	180
QY	181	GYFFIEPLOSMDQDEDEEONKPHIYYRSPAPQEPSTGHRACDTSSEKRNHSDKDKKTR	240
Db	181	GYFFIEPLOSMDQDEDEEONKPHIYYRSPAPQEPSTGHRACDTSSEKRNHSDKDKKTR	240
QY	241	ARKWGERINLADVAALNSGLATEAFSAIGNKTDNTREKTRHRTKRFLLSYPFVEVLVY	300
Db	241	ARKWGERINLADVAALNSGLATEAFSAIGNKTDNTREKTRHRTKRFLLSYPFVEVLVY	300
QY	360	FNVSYHGENLOHVLILMSIVASIIYKDFSIGNLNIIVIVNLIVIHNEQDGFPSIFNA	360
Db	360	FNVSYHGENLOHVLILMSIVASIIYKDFSIGNLNIIVIVNLIVIHNEQDGFPSIFNA	360

QY	361	QTTLNKFCWQHSXNSPGIHHDTAVLLTRQDICRAHDKCDTTLGLAELGTICDPYRSCSI	420
Db	361	QTTLNKFCWQHSXNSPGIHHDTAVLLTRQDICRAHDKCDTTLGLAELGTICDPYRSCSI	419
QY	421	SEDSGLSTAFTHAHELGHVFNMPHDNNKCKEKGVSQPHVMAPTLNFYTNPMWMSKCSR	480
Db	420	SEDSGLSTAFTHAHELGHVFNMPHDNNKCKEKGVSQPHVMAPTLNFYTNPMWMSKCSR	479
QY	481	KYITFLDTGVECLLNEPSPRPYPLVQVPLGILYNNKOCCELLIFGPGSOVCYPMOCCR	540
Db	480	KYITFLDTGVECLLNEPSPRPYPLVQVPLGILYNNKOCCELLIFGPGSOVCYPMOCCR	539
QY	541	LMCNNVGVHKGCRTOHTPWADGTECFPGKCKYCFVCKEMDVPVTDGSGWSMSPFGTC	600
Db	540	LMSNNVGVHKGCRTOHTPWADGTECFPGKCKYCFVCKEMDVPVTDGSGWSMSPFGTC	599
QY	601	SRTCCGGIKTAIRECNRPKNGGKVCGRBMEKSNTEPECLKOKEDRDECAHPDGGK	660
Db	600	SRTCCGGIKTAIRECNRPKNGGKVCGRBMEKSNTEPECLKOKEDRDECAHPDGGK	659
QY	661	HFNINGLLPNVWPVKYSGILMKDRCKLFCRVAGNTAYQLRDRVIDGTGCGQDNDICV	720
Db	660	HFNINGLLPNVWPVKYSGILMKDRCKLFCRVAGNTAYQLRDRVIDGTGCGQDNDICV	719
QY	721	QGLCRQAGCDHVLNSKARRDKCGVGGDSSCKTVAGTFVYHYGNTVVRIPAGATNID	780
Db	720	QGLCRQAGCDHVLNSKARRDKCGVGGDSSCKTVAGTFVYHYGNTVVRIPAGATNID	779
QY	781	VRQHSFSGTDDNDYLLSSKGFLLNGFVVTMAKREIRIGNAVVYSGSETAVERIN	840
Db	780	VRQHSFSGTDDNDYLLSSKGFLLNGFVVTMAKREIRIGNAVVYSGSETAVERIN	839
QY	841	STDRIBOELLLOVLSGKLYNPDVRYSPNIPEDKPOQFVNSHGPWQACSKCOGERKR	900
Db	840	STDRIBOELLLOVLSGKLYNPDVRYSPNIPEDKPOQFVNSHGPWQACSKCOGERKR	899
QY	901	KLVCFRESQDLVSVQRCDRLPQPGHITPCGTCDDLHWHVSRSECSAQGLGYRTLDI	960
Db	900	KLVCFRESQDLVSVQRCDRLPQPGHITPCGTCDDLHWHVSRSECSAQGLGYRTLDI	959
QY	961	YCAKYSRLDGKTEKVDGFCSSHPKSNREKCSGECNTGWRISAWTECSKCDGGTQR	1020
Db	960	YCAKYSRLDGKTEKVDGFCSSHPKSNREKCSGECNTGWRISAWTECSKCDGGTQR	1019
QY	1021	RAICVNRDLVDDSKCTHOEKVITQRCSEPPCPQWKSQDSECLVTCGKHGRHWQCO	1080
Db	1020	RAICVNRDLVDDSKCTHOEKVITQRCSEPPCPQWKSQDSECLVTCGKHGRHWQCO	1079
QY	1081	FGEDRLNDRMCDPETKPTSMOTCOQPECASWQAGPWGSCSVTCGGYQLRAVKCIIGTYM	1140
Db	1080	FGEDRLNDRMCDPETKPTSMOTCOQPECASWQAGPWGSCSVTCGGYQLRAVKCIIGTYM	1139
QY	1141	SVVDDNDCNAATRPDTODCELPSCHPPPAAPETRRRYSAPRTQWRFSGSWTFCSATCGK	1200
Db	1140	SVVDDNDCNAATRPDTODCELPSCHPPPAAPETRRRYSAPRTQWRFSGSWTFCSATCGK	1199
QY	1201	GTRMRYVSCRDENGSVADACATLPRVAKBECVTPCGQWKALDWSVSCVTCGGGRAT	1260
Db	1200	GTRMRYVSCRDENGSVADACATLPRVAKBECVTPCGQWKALDWSVSCVTCGGGRAT	1259
QY	1261	RQVMCVNYSDDHVIDRSECDQDYIPETDODCSMSPCPORTPDSGLAOPHOFNEDYRPSAS	1320
Db	1260	RQVMCVNYSDDHVIDRSECDQDYIPETDODCSMSPCPORTPDSGLAOPHOFNEDYRPSAS	1319
QY	1321	PSRTHVLGNQWRITGFWGACSSCTAGGSRVYVQDENGTYANDCVERIKPDEQRACES	1380
Db	1320	PSRTHVLGNQWRITGFWGACSSCTAGGSRVYVQDENGTYANDCVERIKPDEQRACES	1379
QY	1381	GPCPQWAYGNWGECKLGGGIRFLVYVQBSNGERPDLSCEILLDPPREOCNTHACP	1440
Db	1380	GPCPQWAYGNWGECKLGGGIRFLVYVQBSNGERPDLSCEILLDPPREOCNTHACP	1439

QY HDAANSTGFWSSCSVSCGRGHKQRNVYCMAXDQSGHLESDYCKHLAKPHGRKCRGRCPK 1500
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 1440 HDAAWSTGFWSSCSVSCGRGHKQRNVYCMAXDQSGHLESDYCKHLAKPHGRKCRGRCPK 1499
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 QY WKAGAWSCSVSCGRGVQORHVGCQIGTHKARETECNPTRPSEKDCGPRCPLYTWR 1560
 |||||
 Db WKAGAWSCSVSCGRGVQORHVGCQIGTHKARETECNPTRPSEKDCGPRCPLYTWR 1559
 |||||
 QY ABEWQECTKTCGEGSRKRVKVCVDDNKNVEHGARDVSKRPVDRSCLQPCYVWITGE 1620
 |||||
 Db ABEWQECTKTCGEGSRKRVKVCVDDNKNVEHGARDVSKRPVDRSCLQPCYVWITGE 1619
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 QY WSE 1623
 |||||
 Db WSE 1622
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RESULT 5
 AAE19173
 AAE19173 standard; Protein; 1916 AA.
 AC AAE19173;
 XX
 DT 21-MAY-2002 (first entry)
 XX
 DE Human protease, PRYS-10 protein.
 XX

Human; protease; PRYS-10; enzyme; gastritis; cirrhosis; Crohn's disease;
 Gastrointestinal disorder; autoimmune; inflammatory; cell proliferative;
 Cardiovascular; developmental; epithelial; neurological; reproductive;
 AIDS; Acquired Immune Deficiency Syndrome; allergy; rheumatoid arthritis;
 anaemia; asthma; atherosclerosis; hypertension; myocardial infarction;
 hepatitis; cancer; psoriasis; Cushing's syndrome; hypothyroidism; eczema;
 epilepsy; Alzheimer's disease; Huntington's disease; Parkinson's disease;
 Pick's disease; infertility; vitiligo; drug screening; gene therapy;
 chromosome 3.
 KW Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Domain 570..623
 FT Domain 1313..1364
 FT Domain /note= "Thrombospondin type I domain"
 FT Domain /note= "Thrombospondin type I domain"
 FT Domain 1426..1479
 FT Domain /note= "Thrombospondin type I domain"
 XX
 WC200208396-A2.
 PD 31-JAN-2002.
 PF 17-JUL-2001; 2001WC-US22397.
 PR 21-JUL-2000; 2000US-220063P.
 PR 28-JUL-2000; 2000US-221680P.
 PR 04-AUG-2000; 2000US-223544P.
 PR 11-AUG-2000; 2000US-224717P.
 PR 16-AUG-2000; 2000US-225988P.
 PR 23-AUG-2000; 2000US-227568P.
 XX (INCY-) INCYTE GENOMICS INC.
 XX Deleagean AM, Gandhi AR, Hafalia AJA, Lu DAM, Patterson C,
 PI Tribouley CM, Das D, Kallik DA, Nguyen DB, Lee EA, Khan FA;
 PI Yue H, Au-Young J, Griffen JA, Policky JL, Ramkumar J, Yang J;
 PI Thanavelu K, Ding L, Kearney L, Baughn MR, Borowsky ML;
 PI Sanjanwala MS, Yeo MG, Burford N, Walla NK, Lal P, Lee S, Todd S;
 PI Lo TP, Tang YT, Elliott VS, Azimzai Y, Lu Y;
 XX WPI; 2002-206082/26.
 DR N-PSDB; AAD30577.
 XX
 PT New human protease polypeptide, useful in diagnosis, prevention and

treatment of gastrointestinal, cardiovascular, autoimmune/inflammatory,
 cell proliferative, developmental, epithelial and neurological
 disorders
 Claim 1; Page 143-147; 182pp; English.
 The invention relates to an isolated human protease polypeptide (PRTS).
 PRTS protein and DNA are useful for diagnosing, treating and preventing
 gastrointestinal disorders (gastritis, cirrhosis, Crohn's disease),
 autoimmune/inflammatory disorders (AIDS, allergy, rheumatoid arthritis,
 anaemia, asthma), cardiovascular disorder (atherosclerosis, hypertension,
 myocardial infarction), cell proliferative disorders (hepatitis, cancer,
 psoriasis), developmental disorders (Cushing's syndrome, hypothyroidism),
 epithelial disorder (vitiligo, keloid, eczema), neurological disorders
 (epilepsy, Alzheimer's disease, Pick's disease, Huntington's disease,
 Parkinson's disease), and reproductive disorders (infertility). PRTS
 protein is useful in a number of drug screening techniques and to
 analyse the proteome of a tissue or cell type. PRTS DNA is useful for
 creating knockin humanised animals or transgenic animals to model human
 diseases, in somatic or germline gene therapy and in microarrays
 utilising fluids or tissues from patients to detect altered PKIN
 expression. The present sequence is human PRTS-10 protein. Human PRTS-10
 gene is located on chromosome 3.
 XX
 SQ Sequence 1916 AA;
 Query Match 98.6%; Score 8985; DB 23; Length 1916;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1603; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 20 MGSPDAAAVRKRDLRHPQVQLLELSEYEVSPVIRVVALGEPPTVNFHFKRRRINSIA 79
 Db 1 MGSPDAAAVRKRDLRHPQVQLLELSEYEVSPVIRVVALGEPPTVNFHFKRRRINSIA 60
 QY 80 TDPWPAFASSSSSSTSSQAHYRLSAFGQOFLNLTANAGFIAPLFTVTLTGTGQVNTKF 139
 Db 61 TDPWPAFASSSSSSTSSQAHYRLSAFGQOFLNLTANAGFIAPLFTVTLTGTGQVNTKF 120
 QY 140 YSEEAELKHCYKGYVNTNSEHTAVLSLCSGMLGTRSHDGDYFIEPLQSDMQEDEE 199
 Db 121 YSEEAELKHCYKGYVNTNSEHTAVLSLCSGMLGTRSHDGDYFIEPLQSDMQEDEE 180
 QY 200 QNKPHIYRRSAPQREPSTGRHACDTSEHKNRHSKDKKTRKRWGERINLAGDVAALNS 259
 Db 181 QNKPHIYRRSAPQREPSTGRHACDTSEHKNRHSKDKKTRKRWGERINLAGDVAALNS 240
 QY 260 GLATEAFSAYGKNTDTRKTRRTRKRFVLSYPRFVEVLVADNRMYSYHGENLQHYILT 319
 Db 241 GLATEAFSAYGKNTDTRKTRRTRKRFVLSYPRFVEVLVADNRMYSYHGENLQHYILT 300
 QY 320 LMSIVASLYKDPISGNLIVIVNLIIVHNEODGSPISFNAAQTLLKNFCQWQHSKNSPFG 379
 Db 301 LMSIVASLYKDPISGNLIVIVNLIIVHNEODGSPISFNAAQTLLKNFCQWQHSKNSPFG 360
 QY 380 IHDDTAVLLTRQDICRAHDKCDTGLGAEELGTICDPYRSCSISEDSGLSTAFTHAELGHV 439
 Db 361 IHDDTAVLLTRQDICRAHDKCDTGLGAEELGTICDPYRSCSISEDSGLSTAFTHAELGHV 420
 QY 440 FMPHDDNNKCKEKGVSQPHVMAPTLNFTNPMWMSKSRKYTEFLDTGYGECCLNPEP 499
 Db 421 FMPHDDNNKCKEKGVSQPHVMAPTLNFTNPMWMSKSRKYTEFLDTGYGECCLNPEP 480
 QY 500 ESRPVPVQLPGLLYNNVKNOCCELLIFGSGVQCYMWCRLWCVNNGVYHKGCRTOHTP 559
 Db 481 ESRPVPVQLPGLLYNNVKNOCCELLIFGSGVQCYMWCRLWCVNNGVYHKGCRTOHTP 540
 QY 560 WADGTECEPGRHCKYGFVCPKEMDVPVTDGWSWSWSPFGTCSRCCGGIKTATRECNRPE 619
 Db 541 WADGTECEPGRHCKYGFVCPKEMDVPVTDGWSWSWSPFGTCSRCCGGIKTATRECNRPE 600
 QY 620 PKNGGKVCVGRMFKSCNTEPCLKQKRFDEQCAHFQDGHKFNINGLLPNVRWPKYSG 679
 Db 601 PKNGGKVCVGRMFKSCNTEPCLKQKRFDEQCAHFQDGHKFNINGLLPNVRWPKYSG 660